

Date: Thu, 29 Jul 93 18:15:22 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #919
To: Info-Hams

Info-Hams Digest Thu, 29 Jul 93 Volume 93 : Issue 919

Today's Topics:

 -.-. .-- -. . .-- ...ly use paddles ?
 Amateur Radio public service
 CW -> ASCII converter
 difference between 4X250B & 4CX250 tubes
 FT 470 AA Battery pack
 How many people actually use paddles ? (2 msgs)
 ICOM IC-728 Review
 Opinions wanted: DJ-580 vs. FT-530
 STILL waiting for your license? Read this and weep!
 TS50 Illegal!
 TS50 Illegal?
 W9GR Low cost DSP kit ...

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 28 Jul 1993 18:48:24 GMT
From: mvb.saic.com!zipppy.Telcom.Arizona.EDU!arizona.edu!CS.Arizona.EDU!noao!ncar!
gatech!howland.reston.ans.net!news.ans.net!malgudi.oar.net!news.ysu.edu!
yfn.ysu.edu!ag821@network.ucsd.edu
Subject: -.-. .-- -. . .-- ...ly use paddles ?
To: info-hams@ucsd.edu

In a previous article, n4hy@tang.ccr-p.ida.org (Bob McGwier) says:

>
>

[illegible]

```
>We can all call it rec.radio.amateur.neo-luddite
```

```
>
>Bob
```

> - -

```
>Robert W. McGwier | n4hy@ccr-p.ida.org
>Center for Communications Research | Interests: amateur radio, astronomy,golf
>Princeton, N.J. 08520 | Asst Scoutmaster Troop 5700, Hightstown
>
```

I think CW should be Heard, and not seen

Jeff, AC4HF

Jeff M. Gold, AC4HF
Manager, Academic Computing Support
Tennessee Technological University

Date: 29 Jul 93 12:29:47 GMT
From: psinntp!arrrl.org@uunet.uu.net
Subject: Amateur Radio public service
To: info-hams@ucsd.edu

In `rec.radio.amateur.misc`, `dts@banyan.com` (Daniel Senie) writes:

>Local HF nets will be on 80 meters, SSB and CW. Regional nets are on 80 and 40,
>and probably on 20. I do mostly local traffic on 2 meter FM repeater nets. The
>local NTS traffic handling, which is probably the most beneficial for emergency
>preparedness training is almost exclusively on 2 meters now.

Also, we go out of our way to make the ARRL Net Directory (and Public Service Communications Manual) available to anyone asking for them.

The former is available on CompuServe, America On Line, GEnie, BIX and the five-line ARRL BBS at 203-666-0578, most often with a file name of 93nd.zip

As for the latter, the PSCM, it's available for the asking in printed form only.

```
|      |  |      Deputy Manager, Field Services, ARRL.
|      |___|      The ARRL Amateur Radio Emergency Service, the ARRL
| uck  |   |urder  National Traffic System, The Amateur Auxiliary to
-----|   |      the FCC's Field Operations Bureau, the ARRL
          |   |      Field Organization and the ARRL Monitoring System.
          KY1T
```

lhurder@arrl.org Prodigy - MGTS39A, BIX - ARRL,
MCI Mail - RPALM, MCI Mail - "ARRL", America On Line - "ARRL HQ"
Compuserve - 70007,3373 (ARRL HQ) -- Genie ARRL.HQ

Date: 29 Jul 93 13:28:09 GMT
From: pipex!crosfield.co.uk!rjc@uunet.uu.net
Subject: CW -> ASCII converter
To: info-hams@ucsd.edu

Well guys,

I could'nt really resist writing a small C program to decode the
-.-. --- put out on this newsgroup, so here it is. All you need is an ANSI
compliant C compiler !!

.... - - - - - . . . - . . - - .

73's De Roger G4KYF

```
/******  
*                                     *  
*   CW - ASCII Converter               *  
*   By   Roger Clark   G4KYF           *  
*   29th July 1993                   *  
*                                     *  
******/  
#include <stdio.h>  
struct cw  
{  
    char morse[11];/* allows for 10 morse elements per character */  
    char ascii[11];/* allows for ascii characters or even words up to 10  
                   characters*/  
};  
  
static struct cw lut[] ={
```

```

".-","a",
"-...","b",
"-.-","c",
"-..","d",
".","e",
"..-","f",
"--","g",
"....","h",
"..","i",
".---","j",
"-.-","k",
".-..","l",
"--","m",
"-","n",
"---","o",
"..-","p",
"--.-","q",
".-","r",
"...","s",
"-","t",
"..-","u",
"...-","v",
".-","w",
"-...","x",
"-.-","y",
"--..","z",
"-----","0",
".-----","1",
"..---","2",
"...--","3",
"....-","4",
".....","5",
"-.....","6",
"--....","7",
"---..","8",
"----.","9",
"-.-.-","CT",
".-.-","AR",/* add lines as needed below this line */
"," "};

```

```

void main(int argc,char **argv)
{
FILE *fp;
char in_str[100];/* buffer for cw character, far to large really !! */
int len,i,newline=0;
int lut_elements;

    fp=fopen(argv[1],"r");

```

```

    if (fp==NULL)
    {
        printf("Failed to open %s\n",argv[1]);
        exit(-1);
    }

/*
* Compile time changes to size of lut will get accomodated here !
*/
    lut_elements=sizeof(lut)/sizeof(struct cw);
    printf("%d\n",lut_elements);

    len=0;
    while(!feof(fp))
    {
        in_str[len]=fgetc(fp);
        if (in_str[len] != '.' && in_str[len]!='-')
        {
            if (in_str[len]<32) newline=1;
            {
                in_str[len]=(char) NULL;
                for(i=0;i<lut_elements;i++)
                {
                    if (!strcmp(in_str,lut[i].morse))
                    {
                        printf("%s",lut[i].ascii);
                    }
                }
            }
            if (newline)
            {
                printf("\n");
                newline=0;
            }
            len=0;
        }
        else len++;
    }

    fclose(fp);
}

```

Date: Wed, 28 Jul 93 12:28:08 GMT
 From: mercury.hsi.com!a3bee2!cyphyn!randy@uunet.uu.net
 Subject: difference between 4X250B & 4CX250 tubes
 To: info-hams@ucsd.edu

ahall@umassmed.UMMED.EDU (Art Hall) writes:

: I am looking for information about two tubes - 4X250B and 4CX250. My
: amplifier uses the 4X250B and I would like to know if I could use the
: 4CX250 as replacement.
:
: WB3EJA Art Hall

X stands for external anode

C stands for ceramic in place of glass

- (as in 4-250) stands for all glass envelope

note:

a 4-250c would be a glass tube, with a graphite plate

I think the socket arrangement is different for 4x250 and 4cx250
but the cx would 'take the heat' better.

--

Randy KA1UNW

If you get a shock while
servicing your equipment,

DON'T JUMP!

You might break an expensive tube!

"Works for me!"

-Peter Keyes

Date: 29 Jul 93 13:08:45 GMT

From: ogicse!uwm.edu!linac!att!cbnews!nk30@network.ucsd.edu

Subject: FT 470 AA Battery pack

To: info-hams@ucsd.edu

Recently I purchased the aa battery pack for my FT470 HT and I was surprised to read in the enclosed product sheet that they tell you not to use nicad aa batteries. My question is; Why? $6 \times 1.25 = 7.5$ Their packs are 7.2 volts. Not a show stopper difference. Has anyone tried using aa nicads in the aa battery pack? What happen? They also mention too, not to use the PA6 DC adapter with the AA pack.

NK30

Jeff

Date: 29 Jul 93 12:38:21 GMT

From: ogicse!uwm.edu!linac!att!cbnews!wrb@network.ucsd.edu

Subject: How many people actually use paddles ?

To: info-hams@ucsd.edu

In article <CAWcs4.6IM@icon.rose.hp.com> cmoore@rose.hp.com (Chris Moore) writes:
>wallace.r.blackburn (wrb@cbnews.cb.att.com) wrote:

>: In article <1993Jul27.172349.5003@uoft02.utoledo.edu>

mohan@tulip.es.utoledo.edu writes:

>

>: - squeeze the paddles together, hitting the thumb (dahs) first,

>: hold until you get a C

>

>You have the dahs on the thumb? I have dits on the thumb. Am I backwards?

>I'd hate to think after all these years I've had my paddle backwards. But now

>that I think about it, I've never used anyone else's. Or maybe it matters if

>you are left or right handed? I send with my right hand, and the dits are on

>the left paddle (thumb) and dahs are on the right paddle (fingers). Have I

>got it wrong?

>

>Chris Moore

>N6IYS

>cmoore@mothra.rose.hp.com

>

>

(with accompanying sheepish look) oops. Sorry, I seem to be having more
trouble distinguishing right from left as I get older :)

--

+=====+ Happy user of OS/2 2.0!

| Wally Blackburn | Ask me about it!

Date: 29 Jul 93 12:57:28 GMT

From: mnemosyne.cs.du.edu!nyx!lkollar@uunet.uu.net

Subject: How many people actually use paddles ?

To: info-hams@ucsd.edu

I use a set of Nye Viking paddles with a Ramsey CW-7 keyer. The Nye Viking is
a SOLID little piece of metal, solid black, with long black paddles. A lot
nicer looking, IMHO, than most everything else I've seen on the market*. I
paid \$35 for it at a hamfest last year.

The Ramsey is an OK keyer, but not iambic. It has what I call "dah priority,"
since squeezing both paddles sends only dahs. It works OK for sending stuff
like A, L, P, R, period, numbers 1 - 5, and so on. Sending stuff like C, K,
and so on is a bit cumbersome though. It took about 5 minutes to get used to.

* Of course, nothing beats those shiny brass or chrome Vibroplex bugs for

looks. I'd sure hate to put my fingers on it though -- always polishing,
never sending. :-)

--

Larry Kollar, KC4WZK | I like CW, but that doesn't mean I think
lkollar@nyx.cs.du.edu | every ham should have to learn it.

Date: 29 Jul 93 13:16:15 GMT
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!newsrelay.iastate.edu!news.iastate.edu!
kenman@network.ucsd.edu
Subject: ICOM IC-728 Review
To: info-hams@ucsd.edu

Could someone point me in the direction of a test review of the ICOM IC-728.
I checked the local library but couldn't find a reference in their limited
collection of radio mags.

THANKS!

Kenman@iastate.edu

--

Ken Anderson (Kenman@iastate.edu)
126 Soil Tilth Bldg. (515)294-8996
Iowa State University
Ames, Iowa 50011

Date: 28 Jul 93 00:26:06 GMT
From: news!sun1.clark.net!andy@uunet.uu.net
Subject: Opinions wanted: DJ-580 vs. FT-530
To: info-hams@ucsd.edu

Andrew Krenz (uznerk@mcl.ucsb.edu) wrote:
: Subject pretty much says it all: While I'm sitting here waiting for the FCC
: to mail me my license, I'd like to gather some opinions as to which is the
: better dual bander for the money: the Alinco or the Yaesu.

If you really want to get down to the nitty-gritty, here's one thing that
annoys me about my Alinco: The 12 vdc input is on right side, making the
unit awkward and annoying to hand-hold when operating from external power.
The Yaesu's dc input is on the top, and it doesn't get in your way. Also,

the Alinco gets hot enough to light charcoal when operating in the high power position with 12 external power. Great if you're stranded in the Siberian wilderness on a cold winter night, but otherwise...

-K4ADL

----- Disclaimer -----
All opinions expressed by the author are coincidental and not to be construed.

Date: 27 Jul 93 04:40:24 GMT
From: anomaly.sbs.com!kd1nr!system@uunet.uu.net
Subject: STILL waiting for your license? Read this and weep!
To: info-hams@ucsd.edu

bjahnke@arrl.org (Bart Jahnke) writes:

>>What size does the license copy have to be trimmed to?
>
> To the border of the pocket or certificate sized license (where it
> states to "cut along this line").

Bart,

Isn't this sort of a ridiculous requirement of the FCC? I'm surprised that nobody has seen fit to introduce a proposal to eliminate that part of the process.

Tony

o o Tony Pelliccio, KD1NR, Control Op 441.750+, ARRL VE
 \ / system @ garlic.sbs.com Soon W5YI VE
 \ /
 (oo) Cow humor. Sort of like the Far Side.
 /| ___ \/
/ | {MTV} || MooTV - Rockin' Bumpin' and Funkin' into the 90's
* || {___} ||
 ||-----|| (And people thought my last .sig was long, ha!)
 ^^ ^^

Date: 26 Jul 93 04:03:53 GMT
From: news.acns.nwu.edu!math.ohio-state.edu!darwin.sura.net!news-
feed-1.peachnet.edu!concert!duke!news.duke.edu!ee.ee.duke.edu!jbs@network.ucsd.edu

Subject: TS50 Illegal!
To: info-hams@ucsd.edu

In article <1993Jul22.155308.6417@hemlock.cray.com> dadams@cray.com writes:

>
>|>I wish the rule were ammended to allow licenced Amateurs the privelege to
>|>use 11 meters ...
>|>...If the TS-50 can do both, why not allow it
>|>to do so if the user is a licenced Ham as long as he abides the 4 watt
>|>pep rule etc?

>|Because the FCC correctly assumes that the hams would not stay within the
>|4 watt output limit.

>Why? Do most hams violate all the other limits they have?

Not most hams, because there is little temptation to do so - they already have "powerful enough" gear within the power limits on amateur bands (though I have heard a few Technician stations on 10m remark that they were running a kilowatt).

And then there are the band edges on field day, for hams who managed to pass their exams without getting the right answers to the signal bandwidth questions...

Since the amateur bands largely allow high power and are self-policing, hams must lie in the beds that they have made... there is no self-policing on 11m and thus no incentive to abide by rules other than the threat of FCC fines, which are (or "should be") easy to inflict because of the simplicity of enforcement facilitated by type-acceptance requirements. Certainly 11m has gone to hell in a bucket because of lack of enforcement (and poor planning - 4 watts and short-range communications restrictions on a band with *that* sort of propagation? Feh!) - but don't expect the FCC to announce total surrender by removing all restrictions.

But more simply, you'd expect a large majority of hams with 100 watt transceivers to sit there at 4 watts while the party they were talking with reported that they couldn't quite hear everything they said? If so, you have more faith in the masses than I do.

-joe

--

 You spend the night
 Like you were spending a dime
 - Lyle Lovett

Date: 25 Jul 1993 23:23:08 -0400

From: vtserf.cc.vt.edu!csugrad.cs.vt.edu!not-for-mail@uunet.uu.net
Subject: TS50 Illegal?
To: info-hams@ucsd.edu

In article <9307252220.AA05506@vcc.com> rick@vcc.COM (Rick Sherman) writes:
>According to a source at the local HRO, who was "officially" unable to comment on
the situation, the FCC recinded the fines the day after they were issued.
>Apparently after reviewing things they determined that no violations were
>committed. Another case of a government agency jumping the gun.
>
Ok, so is the TS50 legal to sell to HAMS?

I was in the radio store today, and the guy had a TS50S for sale, \$999. Is
this the same radio, or is there a different version (ie lacking the "S")

Joe Reid

--
Joe Reid
jreid@csugrad.cs.vt.edu jreid@gnu.ai.mit.edu
rri!jreid@vtserf.cc.vt.edu vpcjoe@vtcs1.cs.vt.edu
UNIX Systems Administrator, pool player, and professional do-nothing

Date: 29 Jul 93 13:34:45 GMT
From: ogicse!uwm.edu!cs.utexas.edu!math.ohio-state.edu!magnus.acs.ohio-state.edu!
wvanhorn@network.ucsd.edu
Subject: W9GR Low cost DSP kit ...
To: info-hams@ucsd.edu

In article <1993Jul28.102550.5015@uoft02.utoledo.edu> mohan@tulip.es.utoledo.edu
writes:

>Hello,
>I read the article by W9GR in QST about DSP application in amateur radio.
>Any body here actually built the circuit have comments about it ?
>Also there was an advertisement for a "W9GR DSP II" in July 1993 QST, any idea
>what improvements have been in the project since the article was published
>in Sept 1992.
>
>Thanks :)
>--mohan
>=====

>+ Mohanakrishna Pakkurti	+ mohan@jupiter.cse.utoledo.edu	+
>+ HOME: 2239 University Hills Blvd #204, Toledo OH 43606. Phone:(419)536-9073		+

>=====

Most of the story about Dave Herschberger's (W9GR) DSP unit

has been posted here before, but I will summarize it. Dave expected "good" response to his article so he "optimistically" prepared 200 sets of parts for the kit he offered. He received more than that number of orders in the first few weeks after the QST article appeared, so bought more parts but the orders continued to come in much faster than he could supply. Soon, but the end of 1992, he had shipped hundreds but had a backlog of over 2000 unfilled orders. Then he discovered that he had used up the entire stock of the T.I. cpu chips and T.I. was quoting some 6 or 8 month delivery on the next batch! Actually, it didn't take that long and by the spring of this year he caught up with demand. Dave is a very conscientious (and a very nice) guy, so he kept his customers posted by postcards every step of the way and offered refunds to people who didn't want to wait.

I ordered a kit having ten preprogrammed modes in November and received it in February. I built it with no serious problems and it worked immediately. It outperformed any expectations I had formed; in fact, I was amazed at what it will do. But it did, and still does, have limitations. First, the method of selecting the modes was an afterthought in Dave's design, and is cumbersome. This has been corrected in the commercial model now being advertised.

Second, it uses an 8-bit cpu, which severely limits the dynamic range. In practice, this is annoying because one has to keep adjusting the audio gain of the receiver driving the DSP unit to keep it from saturating. Especially in SSB net operations, this is a pain; typically one participant's signal strength will be greatly different from another's, and each time one of them speaks out you have to adjust your receiver gain accordingly.

I have now corrected this by adding an audio AGC amplifier ahead of the DSP circuit. I just finished installing it and have not yet used it much, but it seems to work well and promises to solve the problem. I got the design and bought a kit of parts from the author of an article that ran in ELECTRONICS NOW, February 1993 issue. For information, write C & S Electronics, P.O. Box 2142, Norwalk, CT 06852-2142.

The more expensive Timeware DSP-59 uses, I believe, a 16-bit cpu chip and has a much greater dynamic range. So, I think the addition of audio AGC would not be necessary.

For more information about the commercial model of the W9GR

(c) The transmitter power must not exceed 1W.

Hope that helps....

Tony

```
-----
      o      o Tony Pelliccio, KD1NR, Control Op 441.750+, ARRL VE
      \      / system @ garlic.sbs.com                      Soon W5YI VE
      \__/_/
      (oo) Cow humor. Sort of like the Far Side.
  /|  ___  \
 / | {MTV} || MooTV - Rockin' Bumpin' and Funkin' into the 90's
* || {___} ||
  ||-----|| (And people thought my last .sig was long, ha!)
  ^^      ^^
-----
```

Date: 29 Jul 93 13:46:52 GMT
From: ogicse!uwm.edu!math.ohio-state.edu!news.acns.nwu.edu!casbah.acns.nwu.edu!
rdewan@network.ucsd.edu
To: info-hams@ucsd.edu

References <CAvvEw.7J@fc.hp.com>, <CAw19r.3sD@news.iastate.edu>,
<1993Jul28.233437.2614@TorreyPinesCA.ncr.com>~&
Subject : Re: CW Prosigns (was: -... - - -...)

In article <1993Jul28.233437.2614@TorreyPinesCA.ncr.com>
kevin@TorreyPinesCA.ncr.com (Kevin Sanders) writes:

>
>Interesting...how can one determine what is technically "correct" other than
>by current usage? I hear a majority of folks sending SK at the end, so that
>is what I do too. If I'm wrong, I'll change it, but how do I know?

A source, may be as canonical as it gets, is the ARRL Operating Manual
(or the RSGB version of it.).

>
>OK, a question for all you procedural nuts: when is AR used?
>I've heard it at the end of a CQ, i.e.,
>
> ...CQ DE AA6AA/M AA6AA/M AR
>
>and also before doing an "over" to the other station, i.e.,
>

> ...AR AA6AA DE AB6BA KN

>

>Which is correct? What does it *mean*? I use these and I really don't
>know what they mean, they seem to be Obligatory Punctuation.

>

According to the manual (I do not follow this all the time and as long
as we are nit-picking...):

QSO STUFF <AR> AA6AA DE AB6BA <K or KN>

and at end of qso

QSO STUFF <AR SK or SK> AA6AA DE AB6BA <K or KN or nothing if no return>

>

>>There are many procedural calls that are not used correctly. Many hams send
>>SK last. Many always send K and never KN (not incorrect, though). And many
>>send the K very long. Ie, ----- . -----

>That's (the long K) just to wake up the operator at the other end after
>giving him your life story. ;-)

Guilty. Only :) when I use the st key and call CQ. To warn :) the
listener than I am using st key. (as if the speed is not enough!!).

Rajiv

aa9ch

Address: r-dewan@nwu.edu

Phone: None on HF. Only CW.

Look for aa9ch/m, j45 s key mobile :)

at the bottom end of 30m at drive time.

End of Info-Hams Digest V93 #919
